



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: First Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 p.m. in place of the RARS net.
- RARS meets for a monthly dinner on the 2nd Tuesday of each month.

PUBLIC SERVICE

2013 MS Bike Ride: Sept. 7-8

Tour d'Orange: Sept. 21

2013 Cycle for Life: Oct. 5

2013 City of Oaks Marathon:
Nov. 3

2013 Makin' Room for Turkey Ride: Nov. 17

To sign up or learn more, visit
http://www.rars.org/public-service/ps_signup.php.

RARS General Meeting

What: "ARDF" -- Amateur Radio Direction Finding
by Joseph Huberman, K5JGH

Date: Tuesday, September 3, 2013

Time: Refreshments, 7:00 p.m.; meeting, 7:30 p.m.

Where: RLBC, Inc., 3200 Bush Street, Raleigh, NC



Get Your Technician's License!

By Murray Merner, K4MHM, Education Director

RARS will conduct another Technician Class License Course.

When: September 7, 14, 28

Where: Room 1226, Engineering Building #2, 890 Oval Drive on campus of NC State University (map and parking location will be e-mailed to pre-registrants) and is open to the public.

Sessions: The sessions begin at 8:00 a.m. and end around 12 noon.

- The First Session is Orientation, which will include registration and books and will be closer to 2 hours long.
- The Second Session will be the first five chapters of the manual.
- The Third Session will cover the remainder of the chapters.

Instructor: Mike Murphy, WA4BPJ

Fee: The fee is \$30.00 including the required current manual (The ARRL Ham Radio License Manual – Technician, 2nd Edition).

See **Technician Class**, continued on p. 4

September 7-8 MS Bike Ride

There's still time to volunteer for the 2013 MS Bike Ride on September 7-8! To sign up as a volunteer, please visit
www.rars.org/public-service/ps_signup.php.



RARS Officers

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.



Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The *Exciter* is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The *Exciter* welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's *Exciter* is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the *Exciter* are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Cathy Downs, KA3QPU, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: First Tuesday of each month

Location: RLCB, Inc.

3200 Bush Street,
Raleigh, NC, 27609 *New Location*

Time: People begin arriving at 7 p.m.

The meeting officially begins at
7:30 p.m.

RARS Monthly Dinner

Join us on the second Tuesday of each month for the RARS dinner. It's open to everyone: RARS members, non-members, friends, and family. Feel free to bring your little ones! Dinner begins at 6:30 p.m.

Listen to the nightly RARS net and check www.rars.org for details on the next dinner's location.

RARS Repeaters in Raleigh

146.640 & 443.625 (88.5 PL)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

VE Testing

The RARS VEs will accept walk-in testing at the February, May, August, and November RARS meetings; the RARSFest in April; the Cary Swapfest in July; the JARSFest in November; and following RARS license classes.

Please bring a photo ID, your current license, a copy of your current license, your \$14 exam fee, and any CSCEs you have for credit. Visit www.rars.org for more information.

Message from the President

I am writing these comments after having completed the second day of the course, ICS-300: Intermediate ICS (Incident Command System) for Expanding Incidents, which will be followed by the course, ICS-400: Advanced ICS. These courses deal with serious stuff.

OK, it was a "pain" to take ICS 100, 200, and 700 several years ago, just so that I could participate as a radio operator at the NC State Fair. Since then, however, I have become aware of the much bigger picture regarding the emergency operations plans at the local, state, and national levels; and, the probability of my participation in those incidents and events.

I concluded that more training was needed, because I was not going to be allowed to participate in most emergency operations if I did not have the requisite training. So, here I am: taking more ICS courses. And, I am enjoying it!

The courses are interesting and practical. My classmates are capable, experienced, and friendly. The knowledge gained from the course material and perspectives on emergency management provided by my classmates—now my colleagues—will make me a more effective responder.

It is hoped that I will not have to use the training in an emergency situation, particularly an expanding incident. But, I am getting ready. Are you?

If you would like more information on ICS training, please contact me.

73, Karl W4CHX

Technician Class, from p. 1

If you already have this manual, the fee is \$10.

Examination: An optional examination is scheduled for the afternoon of the third session. You are not required to take the test then. Other examination sessions will be held periodically by RARS and other clubs.

There is a separate fee of \$14.00. Getting an FCC Registration Number (<https://fjallfoss.fcc.gov/coresWeb/publicHome.do>) before the exam is encouraged. The FRN will be explained at orientation.

Please:

1. E-mail Murray Merner, K4MHM, mmmm0320@gmail.com, to pre-register—NA if you have already contacted me.
2. Let me know if you need a manual—NA if you have already contacted me.
3. Have exact money for the fees.
4. If you are on the contact list and not planning to attend, do you still want to be on the contact list?
5. You may not be on the contact list; would you like to be on it? If yes, send me an e-mail with your phone number.

P.S. Bring paper and pen for note taking!

Events, Hamfests & Conventions

NC Section Convention (Shelby Hamfest) | Aug. 31

Location: Shelby, NC

Website: <http://www.shelbyhamfest.org>

Maysville Hamfest | Oct. 13

Location: Maysville, NC

Info.: <http://www.arrl.org/hamfests/maysville-hamfest-3>

2014 Charlotte Hamfest | March 7

Location: Concord, NC

Website: <http://www.charlottehamfest.org>

2014 Raleigh Hamfest | Apr. 19

Location: Raleigh, NC

Website: <http://www.rars.org/hamfest>

www.rars.org

New RARS Members

Marvin Freil	No License
Antoinette Williams	No License
Dave Caccamo	KK4BPM
Jason Deans	KK4TLZ

September Birthdays

Jack	K4WFJ	09/02
Dave	KK4BPM	09/02
Wilbur	WD4RDT	09/03
Andy	KD4FHF	09/04
Mary Jo	K4MJL	09/05
Lou	K4BYN	09/07
Allen	KK4ETT	09/08
John	N4YRB	09/12
Sam	NC4SJ	09/13
Al	NC4AL	09/13
John	KK4OOL	09/16
Robert	W4MBD	09/16
Don	K4MQE	09/17
Ken	ND7N	09/20
Rod	KI4LSN	09/20
Larry	K4MWE	09/22
Steve	KI4YXJ	09/25
Justin	AJ4MJ	09/25
David	AB4MB	09/26
Carolyn	KC4EYK	09/27
Leon	KB4KSA	09/27

July Traffic Stats

RARS Two Meter Traffic/Ragchew Net

Check-ins: 490

Traffic: 30/24

Minutes: 420

Sessions: 27

Special Interest Nets

Check-ins: 130

Minutes: 360

Sessions: 8

2013 BikeFest -- August 10

Eight hundred riders participated in BikeFest in 90 degree heat and high humidity. The ham volunteers received many "Thank You's" from participants and a "big thanks for making our event run so well" from the event's management.

Ham volunteers for the event: Murray Merner, K4MHM; Dan Sears, KD4AGQ; Marisa Sears, KJ4TAL; Gerald Jones, KI4MXP; Chris McCormick, N3JHR; Wally Smith, KJ4UKV; Rebekah O'Connel, (no call); Ray Albers, K2KYD; Steve Ahlbom, W3AHL; Scott Morris, KG4ZYA; Mike Eckardt, KK4ETS; Wade Gutreuter KK4BVR; and John Snellen, AI4RT.



Above: Wally Smith KJ4UKV hangs on a bike rack with navigator Rebekah O'Connel.

Right: Wade Gutreuter KK4BVR helps a rider with a mechanical problem.

Ray Albers K2HYD, right, communicates information to Net Control.



New Public Service SIG Net

Interested in Ham Public Service? This Net's for You!

By John Snellen, AI4RT

A Special Interest Group net focused on **Ham Public Service** has recently been formed. The net will provide **wide area coverage** so we can get input, discussions, and ideas from around our area.

The net will provide a forum and discussion platform for area clubs and individual hams to connect with and learn from other local hams who are interested in Ham Public Service.

We will focus on exchanging information, ideas and experiences we have had in the area of HPS. The net will also provide an opportunity for radio clubs to talk about upcoming, or past, Ham Public Service events...the good, the bad and the ugly!

www.rars.org

In order to provide wide area coverage, we are utilizing the Carolina 440 UHF Link System through the following repeaters:

441.725(+)(100) – Raleigh Hub
443.450 (+)(100) – Cane Mt., Snow Camp
444.325 (+)(100) – Holly Springs
444.375 (+)(100) – Henderson
444.550 (+)(100) – Coats
444.775 (+)(100) – Cary
444.875 (+)(100) – Wendell
145.330 (-)(100) – Goldsboro



The repeaters are also accessible through IRLP Reflector 9210, node 4270.

The HPSN (Ham Public Service Net) meets every Wednesday at 7:30 p.m. The Ham Public Service North Carolina Yahoo Groups address is www.groups.yahoo.com/group/hpsnc.

Minutes

Board of Directors Meeting Raleigh Amateur Radio Society July 16, 2013

Present: Karl W4CHX, C. J. NC4CJ, Bob K4YXM, Greg KE4PAX, Chuck K4HF, Don WA4AVU, Ken WA4JJW, John AI4RT, Joanne AK4RJ, Hank K4HM, Selene KG4RMT

1. **Call to order (Karl W4CHX):** Karl W4CHX called the meeting to order at 7:04 PM.
2. **Approval of minutes (Karl W4CHX):** The Minutes of the RARS Board Meeting held on June 18, 2013 were approved, with one correction: in the FM Repeater Chair report (section 6, part e, third sentence), “.....install two antennas at the RTP site.....”
3. **Vice President’s report (CJ NC4CJ):** CJ NC4CJ reported that she is trying to contact Tim from Flex Radios about speaking at a club meeting, but she has not been able reach him. She may need suggestions for September meeting.
4. **Treasurer’s report (Greg KE4PAX):** RARS currently has 233 members. If any RARS member has questions regarding the budget, please contact Greg KE4PAX or Karl W4CHX for more information.
5. **Secretary’s report (Bob KI4YXM):** No report.
6. **Committee reports:**
 - a. **Public Service Director (John AI4RT):** John AI4RT reported on several upcoming events.
 - b. **Public Information Officer (Ken WA4JJW):** Ken WA4JJW reviewed the publicity aspects of Field Day. Mr. Keith Weatherly, Mayor of Apex, and Mr. Darin Figurskey, KC2IPY were present at this year’s event.
 - c. **Education Director (Murray K4MHM):** The status of the NCSU amateur radio club is not clear. CJ NC4CJ is still looking for the best way to forward our donation to the club, which was going to be made in association with the Technician licensing class taught by RARS at NCSU.
 - d. **Field Day Chair (Bob W4TTX):** No results were available.
 - e. **FM Repeater Chair (Karl W4CHX):** Karl W4CHX gave an overview of the status of the upgrades and repairs to the RARS repeaters. At the Bayleaf site, the work on the repeater building needs to be finished, followed by installation of the 444.525 repeater equipment. Danny K4ITL is performing the equipment upgrades for the 145.13 (RTP site) and 146.64 repeaters; the timetable for completion is dependent upon his schedule. Charles NC4CD is coordinating the installation of two antennas at the RTP. Once the 145.13 repeater is operational at the RTP site it will be linked to the 146.64 repeater. The linking radios have been purchased and Danny K4ITL is preparing them for installation. Bob K4YXM will inspect the building at the Bayleaf site to see if he and his son can complete the remaining work.
 - f. **RARSFest Chair (John AI4RT):** John AI4RT reported that the first planning meeting for 2014 RARSFest is being scheduled.
 - g. **Exciter Chair (Cathy KA3QPU):** Cathy KA3QPU thanks everyone for their input. It was noted that public service pictures were sent for inclusion in the Exciter.

- h. **Hospitality Chair (Charles WB4DCM):** Charles WB4DCM reported that a monthly census of attendance at the RARS General Membership meeting is available.
- i. **Net Manager (Mary KG4OQA):** No report.
- j. **ARRL Liaison (Chuck K4HF):** The ARRL is planning and publicizing the upcoming centennial celebration of the ARRL in Hartford, CT, which will be held July 17-20, 2014. The Roanoke Division is planning related events. For further information, see www.ARRL2014.org
- k. **At-Large Director (Don WA4AVU):** No report.
- l. **At-Large Director (Jack N6UYB):** No report.
- m. **Food service (Joanne AK4RJ):** No report.
- n. **At-Large Director (Bill AK4BL):** No report.
- o. **W4DW/W4RNC Trustee (Jeff AC4ZO):** No report.
- p. **RARS VE Coordinators (Joe WA4GIR and Liz KO4CK):** No report.
- q. **RARS Webmaster (Hank K4HM):** Hank K4HM reported that a problem was fixed that had allowed members with expired dues to logon. He is thinking about developing a pop-up window that will be displayed if one logs on and their dues are about to expire. Hank K4HM will provide more information at a later date.
- r. **North Carolina QSO Party (Marty W4MY):** No report

7. **Old business:**

- a. **Financial review (Greg KE4PAX):** Greg KE4PAX will schedule the financial review.
- b. **Equipment list for insurance policy (Greg KE4PAX):** Greg KE4PAX reported that he is still adding the new repeater equipment to the list that will be provided to the insurance company.

8. **New business:**

Amateur radio and the new Unified Development Ordinance, City of Raleigh (Karl W4CHX): Karl W4CHX reported that the City of Raleigh is implementing a new Unified Development Ordinance (UDO) in September 2013. Karl W4CHX, Cliff W4FT, and Chuck W3WZN have reviewed the document and are working with the Planning Department to amend the UDO to make sure that amateur radio, specifically the installation of amateur radio antennas, is accommodated in the new regulations. Karl W4CHX will provide updates on this initiative, as indicated.

9. **Any other business:** None

10. **Board member's comments:**

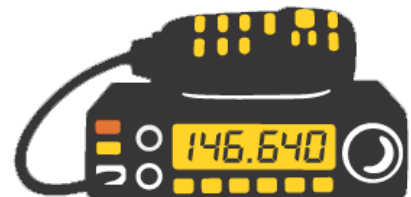
- a. John AI4RT stated that AUXCOMM wants to start using the 146.64 repeater for their training net (update: request cancelled); and, he gave open invitation to participate in public service.
- b. Hank K4HM and Greg KE4PAX are working on improvements to the membership application, including changing the application for family members, streamlining the process, and encouraging members to review their profile.
- c. Chuck K4HF commented that the nomination process for club officers and board members will be started in August.
- d. Karl W4CHX commented on a travel article that he read in the NY Times.

11. **Adjournment (Karl W4CHX):** The meeting was adjourned at 8:55 p.m.

Minutes

General Membership Meeting Raleigh Amateur Radio Society August 6, 2013

1. **Call to order:** Karl W4CHX called the meeting to order at approximately 7:30 p.m.
2. **Approval of minutes:** The Minutes of the RARS General Membership meeting on July 2, 2013 were approved.
3. **Vice President's report (CJ NC4CJ):** Report will be after the completion of Karl's report.
4. **Treasurer's report (Greg KE4PAX):** Greg KE4PAX reported that currently 258 members have renewed their membership. If any RARS member has any questions, please contact Greg KE4PAX or Karl W4CHX for further information.
5. **Announcements (Karl W4CHX):**
 - a. **Upcoming RARS events and hamfests:** Karl W4CHX reminded everyone to see the Exciter or the ARRL website for further information.
 - b. **After meeting gathering:** The after meeting gathering will be held at Applebee's, Six Forks and Wake Forest Roads (by the Costco).
 - c. John AI4RT reviewed **upcoming events** that need volunteers. He also announced the beginning of a net regarding ham volunteers. It will be on the Carolina 440 system at 7:30 p.m. Wednesdays.
 - d. Karl updated **repeater status**. All equipment, except for one UPS, is on hand and is being configured. Will swap out the "64" machine for one with a more modern controller once the updates are complete to the other repeaters. In order to add a second antenna, a wind loading analysis must be completed. Will eventually cross link the "64" and "13" machines.
 - e. Virginia NC4VA reported that **spotter numbers** for people at the training at the last meeting will be issued very soon.
 - f. Murray K4MMM reviewed **upcoming training sessions**.
6. **CJ NC4CJ:** Introduced Paula who is the volunteer director for MS Society. Reviewed the upcoming MS bike ride in New Bern. Paula thanked RARS for their participation and support of the New Bern ride. She encouraged everyone who could help to contact John AI4RT and volunteer. CJ also introduced Diana Wilson from the cystic fibrosis foundation. Diana reviewed the upcoming cycle for life bike ride and encouraged people to support the event. Next month's program will be a presentation by K5JGH on fox hunting.
7. **Any other business:** None.
8. **Drawing:** The winner of the drawing was Dennis NC4DK
9. **Program:** The program on emergency communication by Frank N3FRP.
10. **Adjournment:** The meeting was adjourned at 9:05 p.m.



RARS Classifieds

RARS Members: [Post](#) a new 30 day listing or [Edit](#) your current listings at www.rars.org/classifieds.php. The items below were listed within the last 30 days.

Kenwood items

Posted August 29th, 2013 by: K4MHM
Contact: K4MHM@arrl.net
Kenwood speaker, SP-520: \$30.00
Kenwood desk mike (with cable), MC-50: \$60.00
Kenwood headphones, HS-5: \$40.00
In Raleigh, NC

Yaesu FT-470 Dual band HT

Posted August 28th, 2013 by: K4HM
Contact: hank@k4hm.net
Old FT-470 with drop in charger and owners manual.
Comes with an alkaline battery refillable pack but I don't have any good rechargeable battery packs. They are available from most battery dealers you see at hamfests. Asking \$25
Hank, 919-818-7455

Apelco VHF8500 VHF Marine Radio

Posted August 24th, 2013 by: AJ4HK
Contact: aj4hk@hotmail.com
Apelco VHF8500 vhf radio, comes with original box, manual, mounting bracket and all that came with it when New. Radio is in like new condition and Works fine. This is a Marine Band Radio. Asking \$40.00 or OBO. Dennis AJ4HK, 919-526-2860

Midland 70-526BXL radio (UHF)

Posted August 22nd, 2013 by: AJ4HK
Contact: aj4hk@hotmail.com
Midland 70-526BXL UHF Radio Have a Midland model # 70-526BXL, 8-channel UHF Radio, comes with Mic, power cord and Radio. Works fine.
Buyer needs to have it programmed.
Asking \$25.00
35 watt unit.
Dennis AJ4HK, 919-526-2860

Vintage stereo receiver & amp - needs some TLC

Posted August 21st, 2013 by: K4NYA
Contact: kk4dhd@arrl.net
Kenwood KA-701 amp in good condition, but needs some work. Missing a few switch covers & one switch (see pictures), but this does not affect anything except cosmetics. Left channel does cut out periodically in stereo mode. Works fine in mono.

Power output: 80 watts per channel into 8 ohms (stereo)
Frequency response: 20Hz to 20kHz
Total harmonic distortion: 0.02%
Damping factor: 100
Input sensitivity: 2.5mV (MM), 200mV (line)
Signal to noise ratio: 89dB (MM), 110dB (line)
Output: 200mV (line), 30mV (DIN)
Speaker load impedance: 4 to 16 ohms
Dimensions: 440 x 153 x 407mm
Weight: 13.5kg

Kenwood KT-615 AM/FM tuner. No issues, apart from scratches on top & front panel. Tuner knob is a bit loose.

\$100 for both. Negotiable on price.

See pictures here: <http://imgur.com/a/vRsln>

Baofeng UV-5RA

Posted August 13th, 2013 by: W4ZWA
Contact: w4zwa@yahoo.com
I have a Baofeng UV-5RA that is looking a new home. Radio works great but I bought the newer model. I will give this away FREE to any new ham that is looking to get on the air. You must be a newly license ham operator. email: w4zwa@yahoo.com.

For Sale, almost Brand New CCRadio SW

Posted August 1st, 2013 by: N4TL
Contact: n4tl2@yahoo.com
For Sale, almost Brand New CCRadio SW. My brother bought this radio four months ago and decided he would rather listen to his old tube short wave radio. He asked me to sell it for him. The Radio is a CCRadio SW. You can read about it at this website: <http://www.ccrane.com/radios/shortwave-radios/ccradio-sw.aspx#UfPZi6yOl2M>. It has C. Crane's dual coil Ferrite antenna for the AM broadcast band and 50 memories. It receives the AM and FM broadcast bands as well as shortwave from 1,711 KHz to 29,999 KHz.
Asking \$100 for the radio. It comes with the batteries my brother put in it. As well as everything it was shipped with, the box, instructions, AC adapter etc. There is a picture here. <http://raleigh.craigslist.org/ele/3962984414.html>

LOCAL AMATEUR RADIO NETS

The **Apex Emergency Response Communications Net** meets weekly each Sunday at 9 p.m. on the 146.640 repeater. The purpose of the net is to assist ham radio operators in preparing to respond to emergencies, test their equipment, improve operating skills, pass traffic, and to provide those with a common interest an opportunity to meet. The Apex ERC Net provides amateur radio emergency communications for The Church of Jesus Christ of Latter-Day Saints' disaster relief efforts. All stations are invited to participate in this net.

Please join us on the **Carolina 440 Net** every Monday night at 7:30 p.m. This ragchew net utilizes the Carolina 440 UHF Link Repeater System. Comprised of the Raleigh, Down East, and Coastal Wilmington link systems, there are currently 19 repeaters on the system, covering 21,168 square miles. For a list of these repeaters, please visit www.carolina440.net.

Please join us each Tuesday at 9:15 p.m. on the 146.880 repeater for the **Central Carolina SKYWARN** net. On each net there are announcements, check-ins by county, and often a program or training spot. Check us out at www.centralcarolinaskywarn.net.

The **Ham Public Service Net** meets every Wednesday at 7:30 p.m. and provides a forum and discussion platform for area clubs and individual hams to connect with and learn from other local hams who are interested in Ham Public Service. The HPSN is utilizing the Carolina 440 UHF Link System. The repeaters are also accessible through IRLP Reflector 9210, node 4270. The Ham Public Service North Carolina Yahoo Groups address is: www.groups.yahoo.com/group/hpsnc.

The **PCTN (Piedmont Costal Traffic Net)** meets daily at 9 p.m. on the 146.880 repeater. The purpose of the net is to handle/pass NTS formal messages. Amateur stations are encouraged to check in and participate. The backup repeater is the 147.105 (PL tone 82.5).

The **RARS Technical & Trader's Net** is held on Saturday evenings on the 146.640 repeater at 8:30 p.m.

Join us every evening at 8 p.m. on the 146.640 repeater for the **RARS Two-Meter Net**. You can give a ragchew, check in and out (this counts for our total numbers reported to the ARRL!), make announcements, and pass traffic. We also offer National Traffic System traffic training. All licensed stations are welcome to participate in the net as often as they can. This net is also a great way to learn about amateur radio if you are newly licensed!

The **VOIP Hurricane Net** is held Sundays at 00:00 UTC on the 146.775 repeater with a tone of 88.5 (IRLP node 4260). For information about activation details, go to www.voipwx.net.

The **Wake County ARES Net** meets Thursdays at 9:15 p.m. (after the PCTN TrafficNet) on the 146.88 repeater. We provide discussion and training for the implementation and provision of emergency communications for our served agencies, such as the American Red Cross and the local and state Emergency Operations Center. Please join us. For more information please visit <http://www.wakeares.org>.



Want to be a Published Author?

What's your favorite aspect of amateur radio? Emergency communications or home-brewing radios? Contesting or Special Events stations? Why not share your interests, knowledge, and experience with other hams in the *Exciter*?

Both technical and non-technical articles are needed for the *Exciter*. You could write up a short piece on your experience SAGing at a bike-a-thon or an in-depth piece about putting up an antenna in your attic. We'll take articles of any length!

To submit an article, just email your piece to the Editor (editor@rars.org). Please feel free to attach any appropriate pictures or graphics. Be sure to include caption information about the images and identify the people in photographs. And always obtain their permission to use their image.



We look forward to learning from each other and broadening our club's knowledge base! Break out those pens, pencils, or keyboards and get writing!

RARS Classifieds

Want to add a new radio to your shack? Have an antenna for sale? Browse the RARS classifieds for new and used radio equipment at <http://rars.org/classifieds.php> or see p. 10 of this newsletter for current listings.

RARS members may post notices about equipment they are selling. Posts last for 30 days and are editable at any time.

Using our classifieds is a great way for buyers to search for available items and for sellers to reach a local, targeted audience.

The Raleigh Amateur Radio Society's

EXCITER

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